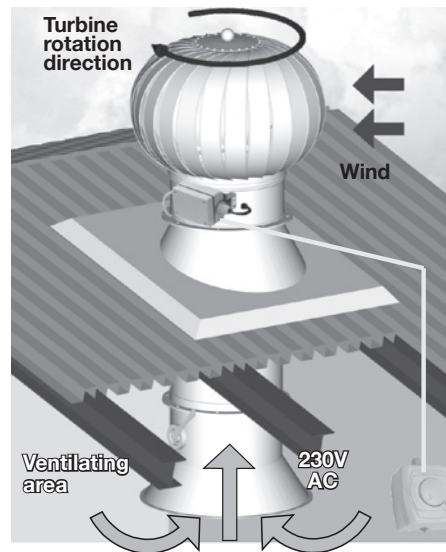


PICTURE



FUNCTION PRINCIPLE



DESCRIPTION

Rotary chimney cowl Hybrid Turbowent is a device, which, in a dynamic way, uses force of the wind to increase chimney draught, it is also equipped with a low power electric motor used to stabilize it. The turbine always rotates in the same direction no matter of the wind strength or its direction. It is to be mounted on gravitation based ventilation duct endings.

When the wind speed is too small to achieve the desired efficiency, electric motor speeds the turbine up, when it is too strong it slows the turbine down. When the wind speed is strong enough to achieve the rotation speed set on the steering device, motor does not work, and cowl works just like the ordinary Turbowent.

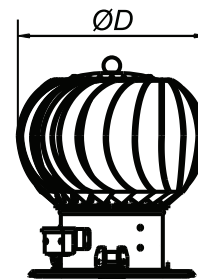
Adjusting range:	0 - 180 [rev/min]
Maximal working temperature:	from -30 to +70 [°C]
Rotating unit:	ball bearing system
Nominal power:	TU400-H-20W; TU500-H-50W
Max. starting power:	TU400-H-170W; TU500-H-170W
Power:	230[V] / 50 [Hz]
Rotation speed power controll:	- 10VDC
Speed signal:	0 - 10V
Noise level:	<35dB

DESTINATION

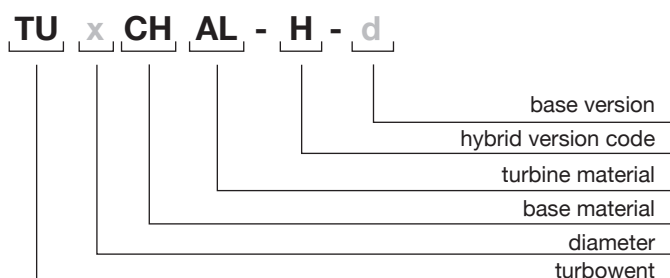
- when there are wind fluctuations on the chimney duct ending, caused by its bad location
- when there is an unfavorable terrain configuration, with strong and frequent winds
- when there is a lack of chimney draught or it is too weak
- in order to improve the natural (gravitation) ventilation

MEASUREMENTS

Diameter	Turbine diameter D [mm]
Ø400	~ 630
Ø500	~ 740



DENOTATIONS / PRODUCT CODES

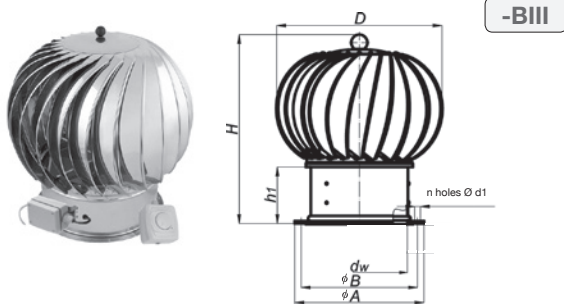


MATERIALS

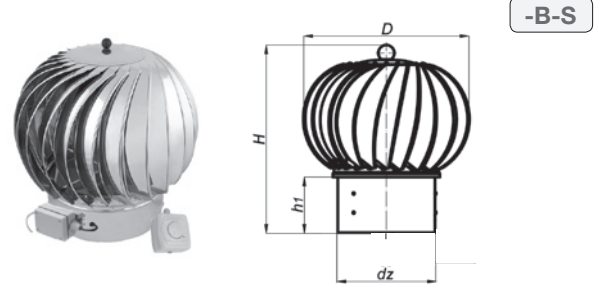
Destination	W	W - ventilation ducts
	-	S - gas and oil exhaust ducts
	-	D - smoke ducts
Base material	CH	CH - chrome-nickel sheet 1.4301
	-	OC - galvanised steel sheet
	-	AL - aluminum
	-	ML - powder coated
Turbine material	-	CH - chrome-nickel sheet 1.4301
	AL	AL - aluminum

TURBOWENT - VERSIONS OF BASES

1. BASE WITH COLLAR



2. INLET PIPE



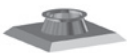
MEASUREMENTS TABLE FOR VARIOUS INLET DIAMETERS

Ø 400	Dimensions [mm]										Weight [kg]
	Base version	D	dw	dz	H	h1	h2	A	B	d1	Amount n
-BIII	~630	398.8	-	649	165	145	464	438	9.5	8	8.00
-B-S	~630	-	400.8	650	170	135	-	-	-	-	6.85

Ø 500	Dimensions [mm]										Weight [kg]
	Base version	D	dw	dz	H	h1	h2	A	B	d1	Amount n
-BIII	~740	498.8	-	794	178	120	564	538	9.5	8	2.00
-B-S	~740	-	500.8	795	183	110	-	-	-	-	2.00

DIFFERENT KINDS OF ROOF BASES

POD-D-BI-OC



PDKD-I-J



PDKD-I-D



PZR-I



POD-D-BII-OC



PDKD-II-J



PDKD-II-D



PZR-II



POD-D0BIII-OC



PDKD-III-J



PDKD-III-D



PZR-III



PZR-IV



AIRFLOW CHARTS

